

Alexey Karpechko

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,244
citations

236833

25
h-index

233338

45
g-index

57
all docs

57
docs citations

57
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Attribution of polar warming to human influence. <i>Nature Geoscience</i> , 2008, 1, 750-754.	5.4	222
2	Seasonal winter forecasts and the stratosphere. <i>Atmospheric Science Letters</i> , 2016, 17, 51-56.	0.8	159
3	Northern winter climate change: Assessment of uncertainty in CMIP5 projections related to stratosphere-troposphere coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7979-7998.	1.2	131
4	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 2. Predictability Arising From Stratosphere-Troposphere Coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030923.	1.2	119
5	Predictability of downward propagation of major sudden stratospheric warmings. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1459-1470.	1.0	118
6	Stratosphere-troposphere coupling and annular mode variability in chemistry-climate models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	107
7	Predicting Sudden Stratospheric Warming 2018 and Its Climate Impacts With a Multimodel Ensemble. <i>Geophysical Research Letters</i> , 2018, 45, 13,538.	1.5	95
8	The Climate-system Historical Forecast Project: do stratosphere-resolving models make better seasonal climate predictions in boreal winter?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 1413-1427.	1.0	91
9	Observed and modeled tropospheric cold anomalies associated with sudden stratospheric warmings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1591-1610.	1.2	81
10	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 1. Predictability of the Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030920.	1.2	78
11	Stratospheric influence on tropospheric climate change in the Northern Hemisphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	61
12	Predictability of Sudden Stratospheric Warmings in the ECMWF Extended-Range Forecast System. <i>Monthly Weather Review</i> , 2018, 146, 1063-1075.	0.5	61
13	Revisiting the Mystery of Recent Stratospheric Temperature Trends. <i>Geophysical Research Letters</i> , 2018, 45, 9919-9933.	1.5	51
14	Effects of the tropospheric large-scale circulation on European winter temperatures during the period of amplified Arctic warming. <i>International Journal of Climatology</i> , 2020, 40, 509-529.	1.5	43
15	A model study of tropospheric impacts of the Arctic ozone depletion 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7999-8014.	1.2	41
16	Sub-seasonal Predictability and the Stratosphere. , 2019, , 223-241.		41
17	Attribution of observed changes in stratospheric ozone and temperature. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 599-609.	1.9	40
18	Mesosphere-to-stratosphere descent of odd nitrogen in February-March 2009 after sudden stratospheric warming. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4645-4655.	1.9	39

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19	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000652.	9.0	39
20	Predictability of European winter 2015/2016. <i>Atmospheric Science Letters</i> , 2017, 18, 38-44.	0.8	35
21	Constraining Future Summer Austral Jet Stream Positions in the CMIP5 Ensemble by Process-Oriented Multiple Diagnostic Regression*. <i>Journal of Climate</i> , 2016, 29, 673-687.	1.2	33
22	Climate Impacts of the Southern Annular Mode Simulated by the CMIP3 Models. <i>Journal of Climate</i> , 2009, 22, 3751-3768.	1.2	32
23	Variability of the Northern Hemisphere polar stratospheric cloud potential: the role of North Pacific disturbances. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 1020-1029.	1.0	32
24	Stratospheric influence on circulation changes in the Southern Hemisphere troposphere in coupled climate models. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	30
25	Southern Hemisphere atmospheric circulation response to the El Chichón and Pinatubo eruptions in coupled climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1813-1822.	1.0	27
26	Influence of ozone recovery and greenhouse gas increases on Southern Hemisphere circulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
27	Improving Antarctic Total Ozone Projections by a Process-Oriented Multiple Diagnostic Ensemble Regression. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 3959-3976.	0.6	27
28	Sensitivity of the southern annular mode to greenhouse gas emission scenarios. <i>Climate Dynamics</i> , 2012, 38, 563-572.	1.7	26
29	Constraining Uncertainties in CMIP5 Projections of September Arctic Sea Ice Extent with Observations. <i>Journal of Climate</i> , 2020, 33, 1487-1503.	1.2	26
30	Skilful seasonal predictions of Baltic Sea ice cover. <i>Environmental Research Letters</i> , 2015, 10, 044007.	2.2	24
31	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	1.9	24
32	Impact of stratospheric variability on tropospheric climate change. <i>Climate Dynamics</i> , 2010, 34, 399-417.	1.7	23
33	Uncertainties in future climate attributable to uncertainties in future Northern Annular Mode trend. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	23
34	Seasonal Forecasts of the Exceptional Northern Hemisphere Winter of 2020. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090328.	1.5	23
35	The Polar Vortex and Extreme Weather: The Beast from the East in Winter 2018. <i>Atmosphere</i> , 2020, 11, 664.	1.0	22
36	Mixed Layer Temperature Response to the Southern Annular Mode: Mechanisms and Model Representation. <i>Journal of Climate</i> , 2010, 23, 664-678.	1.2	20

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37	Improvements in statistical forecasts of monthly and two-monthly surface air temperatures using a stratospheric predictor. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2444-2456.	1.0	18
38	The link between springtime total ozone and summer UV radiation in Northern Hemisphere extratropics. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8649-8661.	1.2	16
39	Nonlinear Response of the Stratosphere and the North Atlantic-European Climate to Global Warming. Geophysical Research Letters, 2018, 45, 4255-4263.	1.5	15
40	Arctic Stratosphere Dynamical Response to Global Warming. Journal of Climate, 2017, 30, 7071-7086.	1.2	14
41	Quantitative assessment of Southern Hemisphere ozone in chemistry-climate model simulations. Atmospheric Chemistry and Physics, 2010, 10, 1385-1400.	1.9	13
42	The Influence of Eurasian Snow Extent on the Northern Extratropical Stratosphere in a QBO Resolving Model. Journal of Geophysical Research D: Atmospheres, 2018, 123, 315-328.	1.2	13
43	Statistical Learning Methods as a Basis for Skillful Seasonal Temperature Forecasts in Europe. Journal of Climate, 2019, 32, 5363-5379.	1.2	11
44	Atmospheric Circulation Response to Anomalous Siberian Forcing in October 2016 and its Long-Range Predictability. Geophysical Research Letters, 2019, 46, 2800-2810.	1.5	10
45	Mechanisms and predictability of sudden stratospheric warming in winter 2018. Weather and Climate Dynamics, 2020, 1, 657-674.	1.2	8
46	Variability of water vapour in the Arctic stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 4307-4321.	1.9	7
47	Sensitivity of QBO teleconnection to model circulation biases. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 2147-2159.	1.0	7
48	Enhanced Stratosphere/Troposphere Coupling During Extreme Warm Stratospheric Events with Strong Polar-Night Jet Oscillation. Atmosphere, 2018, 9, 467.	1.0	6
49	Siberian Snow Forcing in a Dynamically Bias-Corrected Model. Journal of Climate, 2020, 33, 10455-10467.	1.2	6
50	Estimation of water-vapor and ozone transport in the upper troposphere-lower stratosphere and fluxes through the tropopause during the field campaign at the Sodankyla station (Finland). Izvestiya - Atmospheric and Oceanic Physics, 2009, 45, 294-301.	0.2	5
51	Sudden stratospheric warmings during El Niño and La Niña: sensitivity to atmospheric model biases. Weather and Climate Dynamics, 2022, 3, 45-58.	1.2	5
52	Stratosphere-troposphere coupling enhances subseasonal predictability of Northern Eurasian cold spells. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 2769-2783.	1.0	5
53	Influence of the Ural High on Air Temperatures over Eastern Europe and Northern China during Extended Winter. Journal of Climate, 2022, 35, 1309-1325.	1.2	4
54	Minimal impact of model biases on Northern Hemisphere El Niño-Southern Oscillation teleconnections. Weather and Climate Dynamics, 2021, 2, 913-925.	1.2	3

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55	International regulations have paused a jet-stream shift in the Southern Hemisphere. <i>Nature</i> , 2020, 579, 500-501.	13.7	3
56	A Minimal Model to Diagnose the Contribution of the Stratosphere to Tropospheric Forecast Skill. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	1.2	3
57	Linking uncertainty in simulated Arctic ozone loss to uncertainties in modelled tropical stratospheric water vapour. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15047-15067.	1.9	1